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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2019-06-26-42 **Date:** 20-03-2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-03-2019

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 19-03-2019

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

ME-12
QAN
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R-Karthik
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro
Sig.
Date
BANGALORE



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 Date: 08/04/2019

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.70 X 149.36 X 150.31	22658	8.304	408.9	18.0	18.4
2	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.99 X 151.67 X 151.78	23051	8.712	432.0	18.7	
3	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.89 X 150.56 X 151.28	22869	8.395	424.3	18.6	

Note:

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All information furnished by Customer/Representative

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 29/04/2019 /

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.14 X 151.90 X 151.39	22655	8.243	534.3	23.6	23.0
2	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	150.30 X 151.79 X 150.63	22813	8.528	505.3	22.2	
3	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.11 X 149.64 X 150.07	22313	8.920	518.2	23.2	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 08/04/2019

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	150.39 X	22547	8.304	415.6	18.4	18.7
					149.92 X					
					149.82					
2	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.02 X	22786	8.712	430.4	18.9	
					150.88 X					
					150.66					
3	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.34 X	22828	8.395	430.5	18.9	
					150.85 X					
					150.07					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 29/04/2019

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)					(Sq.mm)
1	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	150.76 X	22562	8.243	540.6	24.0	23.2
					149.65 X					
					151.46					
2	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.48 X	22670	8.528	506.0	22.3	
					151.66 X					
					149.86					
3	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	151.08 X	22657	8.920	530.4	23.4	
					149.97 X					
					151.65					

Note:

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R.14

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 08/03/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/03/2019	08/03/2019	149.82 X 151.63 X 151.36	22718	8.304	416.8	18.3	18.3
2	Drain Bottom Slab Concrete	M20	01/03/2019	08/03/2019	150.80 X 149.01 X 151.24	22472	8.712	404.5	18.0	
3	Drain Bottom Slab Concrete	M20	01/03/2019	08/03/2019	150.05 X 151.70 X 151.51	22762	8.395	423.8	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 29/04/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	150.82 X 149.17 X 150.16	22497	8.243	525.7	23.4	23.3
2	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.55 X 151.94 X 151.82	22723	8.528	516.9	22.7	
3	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	151.44 X 151.72 X 151.47	22976	8.920	549.0	23.9	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 08/04/2019
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/29/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-04-2019
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 08/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	149.28 X 150.43 X 149.87	22456	8.304	413.2	18.4	18.5
2	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	150.65 X 149.82 X 151.04	22571	8.712	420.0	18.6	
3	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	150.86 X 150.83 X 151.97	22755	8.395	424.2	18.6	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 29/04/2019

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.03 X 151.36 X 150.19	22558	8.243	538.5	23.9	23.2
2	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	150.86 X 149.56 X 150.17	22562	8.528	507.6	22.5	
3	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.64 X 150.88 X 149.29	22577	8.920	527.8	23.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 15/04/2019

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	151.76 X	22999	8.304	431.0	18.7	18.6
					151.55 X					
					150.07					
2	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	151.27 X	22926	8.712	424.3	18.5	
					151.56 X					
					150.68					
3	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	151.53 X	22945	8.395	426.8	18.6	
					151.42 X					
					149.35					

Note:

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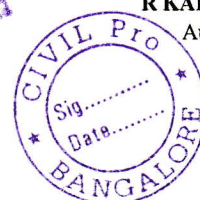
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 Date: 06/05/2019

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	151.68 X 149.75 X 150.58	22715	8.243	540.4	23.8	23.2
2	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	151.04 X 151.64 X 149.34	22904	8.528	522.3	22.8	
3	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.42 X 151.65 X 149.14	22661	8.920	523.0	23.1	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 15/04/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	149.40 X	22335	8.304	413.1	18.5	18.5
					149.50 X					
					151.08					
2	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	151.55 X	22674	8.712	414.1	18.3	
					149.62 X					
					149.32					
3	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	151.07 X	22673	8.395	421.8	18.6	
					150.08 X					
					151.94					

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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BBMP, Bangalore - 97

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 06/05/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	151.04 X	22870	8.243	526.4	23.0	23.1
					151.41 X					
					149.30					
2	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.61 X	22651	8.528	520.0	23.0	
					151.41 X					
					151.32					
3	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.57 X	22528	8.920	525.8	23.3	
					150.62 X					
					151.53					

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 15/04/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)					(Sq.mm)
1	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	150.33 X	22525	8.304	409.4	18.2	18.2
					149.83 X					
					150.04					
2	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	150.56 X	22607	8.712	408.2	18.1	
					150.15 X					
					149.63					
3	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	149.27 X	22682	8.395	415.4	18.3	
					151.95 X					
					151.91					

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 Date: 06/05/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.29 X 151.87 X 150.84	22673	8.243	529.6	23.4	22.8
2	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	150.06 X 151.81 X 149.96	22780	8.528	501.9	22.0	
3	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.92 X 151.35 X 149.22	22691	8.920	525.3	23.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 15/04/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	150.45 X 150.67 X 151.97	22667	8.304	417.9	18.4	18.4
2	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	149.32 X 149.46 X 150.96	22318	8.712	409.7	18.4	
3	Drain Side Wall Concrete	M20	08/04/2019	15/04/2019	149.55 X 151.34 X 150.20	22633	8.395	415.9	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-06-26-42 **Date:** 06/05/2019

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	150.28 X 149.86 X 151.42	22521	8.243	524.1	23.3	23.4
2	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.01 X 150.54 X 149.75	22432	8.528	515.0	23.0	
3	Drain Side Wall Concrete	M20	08/04/2019	06/05/2019	149.46 X 149.41 X 149.50	22330	8.920	534.5	23.9	

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-06-26-42 **Date:** 25-03-2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-2019

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 21/03/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-06-26-42 **Date:** 18-03-2019
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/29/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-03-2019
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 16-03-2019
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.3	—
2	Finess by Air permeability method (m ² /kg, Min)	284.8	225m ² /kg, Min
3	Density (gm/cc)	3.11	—
4	Standard Consistency (%)	28.5	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

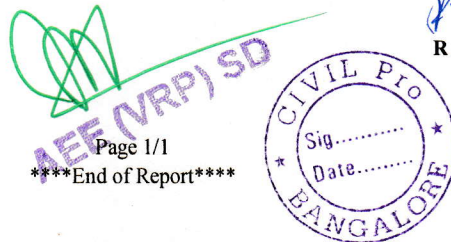
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-06-26-42 **Date:** 13-04-2019 ✓
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/29/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory ✓
Date of Receipt : 15-03-2019 ✓
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 16-03-2019
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.0N/mm ²	Not less than 53 N/mm ²

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-06-26-42 **Date:** 18-03-2019 ✓

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 15-03-2019

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 15-03-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	753	753	5.0	95.0	90-100
3	20 mm	6596	7349	49.0	51.0	30-70
4	10 mm	4759	12108	80.7	19.3	10-35
5	4.75 mm	2598	14706	98.0	2.0	0-5
6	Pan	294	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-06-26-42

Date: 18-03-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.19	—

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-06-26-42 **Date:** 18-03-2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-2019

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 15-03-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	239	239	4.8	95.2	90-100
3	10 mm	2478	2717	54.3	45.7	25-55
4	4.75 mm	2138	4855	97.1	2.9	0-10
5	Pan	145	5000	100	0	-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2019-06-26-42

Date: 18-03-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.56	—
5	Bulk Density(Compacted) (Kg/l)	1.54	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	24.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R. KARTHIK RECHAN
Authorized Signature
Quality Manager



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End of Report

(Handwritten signature)
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-06-26-42 Date: 18-03-2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Other Works at Varadarajanagara Main Road Surroundings in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/29/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 15-03-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	58	86	8.6	91.4	60-95	75-100	85-100	95-100
4	1.18 mm	238	324	32.4	67.6	30-70	55-90	75-100	90-100
5	600 micron	209	533	53.3	46.7	15-34	35-59	60-79	80-100
6	300 micron	206	739	73.9	26.1	5-20	8-30	12-40	15-50
7	150 micron	198	937	93.7	6.3	0-10	0-10	0-10	0-15
8	Pan	63	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-06-26-42

Date: 18-03-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	—
2	Specific Gravity	2.54	—
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN

Authorized Signatory

Quality Manager



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****End of Report****

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